

TABLE C.4.1-4.—Monthly Results for Physical and Chemical Characteristics of the Lawrence Livermore National Laboratory Sanitary Sewer Effluent, 2002^a

| | Detection Frequency ^b | Minimum | Maximum | Median | IQR |
|--|----------------------------------|---------|---------|--------------|--------------|
| 24-Hour Composite Sample Parameter (mg/L) | | | | | |
| Alkalinity (mg/L) | | | | | |
| Bicarbonate alkalinity (as CaCO ₃) | 12 of 12 | 175 | 300 | 250 | 24.0 |
| Carbonate alkalinity (as CaCO ₃) | 2 of 12 | <5 | 55.0 | <5 | ^c |
| Total alkalinity (as CaCO ₃) | 12 of 12 | 230 | 300 | 250 | 22.5 |
| Anions (mg/L) | | | | | |
| Bromide | 10 of 12 | <0.1 | 1.1 | 0.25 | ^c |
| Chloride | 12 of 12 | 41 | 114 | 61 | 28 |
| Fluoride | 10 of 12 | <0.05 | 2.3 | 0.11 | ^c |
| Nitrate (as N) | 1 of 12 | <0.1 | <1 | <0.44 | ^c |
| Nitrate (as NO ₃) | 1 of 12 | <0.04 | <4.4 | <4.4 | ^c |
| Nitrate plus Nitrite (as N) | 2 of 12 | <0.1 | <1 | <1 | ^c |
| Nitrite (as N) | 8 of 12 | <0.02 | 0.33 | 0.19 | ^c |
| Nitrite (as NO ₂) | 8 of 12 | <0.065 | 1.1 | 0.63 | 4.3 |
| Orthophosphate | 12 of 12 | 15 | 23 | 20 | 2.3 |
| Sulfate | 12 of 12 | 12 | 19 | 15 | |
| Nutrients (mg/L) | | | | | |
| Ammonia nitrogen (as N) | 12 of 12 | 43 | 56 | 47 | 5.0 |
| Total Kjeldahl nitrogen | 12 of 12 | 49 | 95 | 60 | 11 |
| Total phosphorus (as P) | 12 of 12 | 6.8 | 14 | 9.8 | 2.6 |
| Oxygen demand (mg/L) | | | | | |
| Biochemical oxygen demand | 12 of 12 | 100 | 810 | 333 | 107 |
| Chemical oxygen demand | 12 of 12 | 145 | 1,780 | 602 | 121 |
| Solids (mg/L) | | | | | |
| Settleable solids | 12 of 12 | 4 | 90 | 40 | 11.3 |
| Total dissolved solids | 12 of 12 | 165 | 413 | 256 | 78.5 |
| Total suspended solids | 12 of 12 | 88 | 650 | 385 | 138 |
| Volatile solids | 12 of 12 | 140 | 913 | 480 | 142 |
| Total metals (mg/L) | | | | | |
| Aluminum | 12 of 12 | 0.30 | 0.80 | 0.49 | 0.16 |
| Calcium | 12 of 12 | 15 | 27 | 18 | 2.3 |
| Iron | 12 of 12 | 1.0 | 2.5 | 1.6 | 0.30 |
| Magnesium | 12 of 12 | 2.5 | 3.0 | 2.8 | 0.15 |
| Potassium | 12 of 12 | 19 | 26 | 22 | 2.0 |
| Selenium | 2 of 12 | <0.002 | <0.02 | <0.002 | ^c |
| Sodium | 12 of 12 | 35 | 87 | 47 | 15 |
| Total organic carbon | | | | | |
| | 12 of 12 | 39 | 56 | 53 | 6.3 |
| Tributyltin^d | 1 of 2 | <6 | 10 | ^e | ^c |